

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN033120\  
 Data File : VN060785.D  
 Acq On : 31 Mar 2020 14:57  
 Operator : JC/MD  
 Sample : L1758-06  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Apr 01 08:23:17 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N031820W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 18 08:49:09 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.64  | 168  | 209545   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.56  | 114  | 349867   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 328508   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 147801   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.00  | 65   | 135341   | 47.05 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 94.10%  |          |
| 35) Dibromofluoromethane    | 7.56  | 113  | 103597   | 48.97 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 97.94%  |          |
| 50) Toluene-d8              | 10.08 | 98   | 430964   | 49.87 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 99.74%  |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 161115   | 50.88 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 101.76% |          |

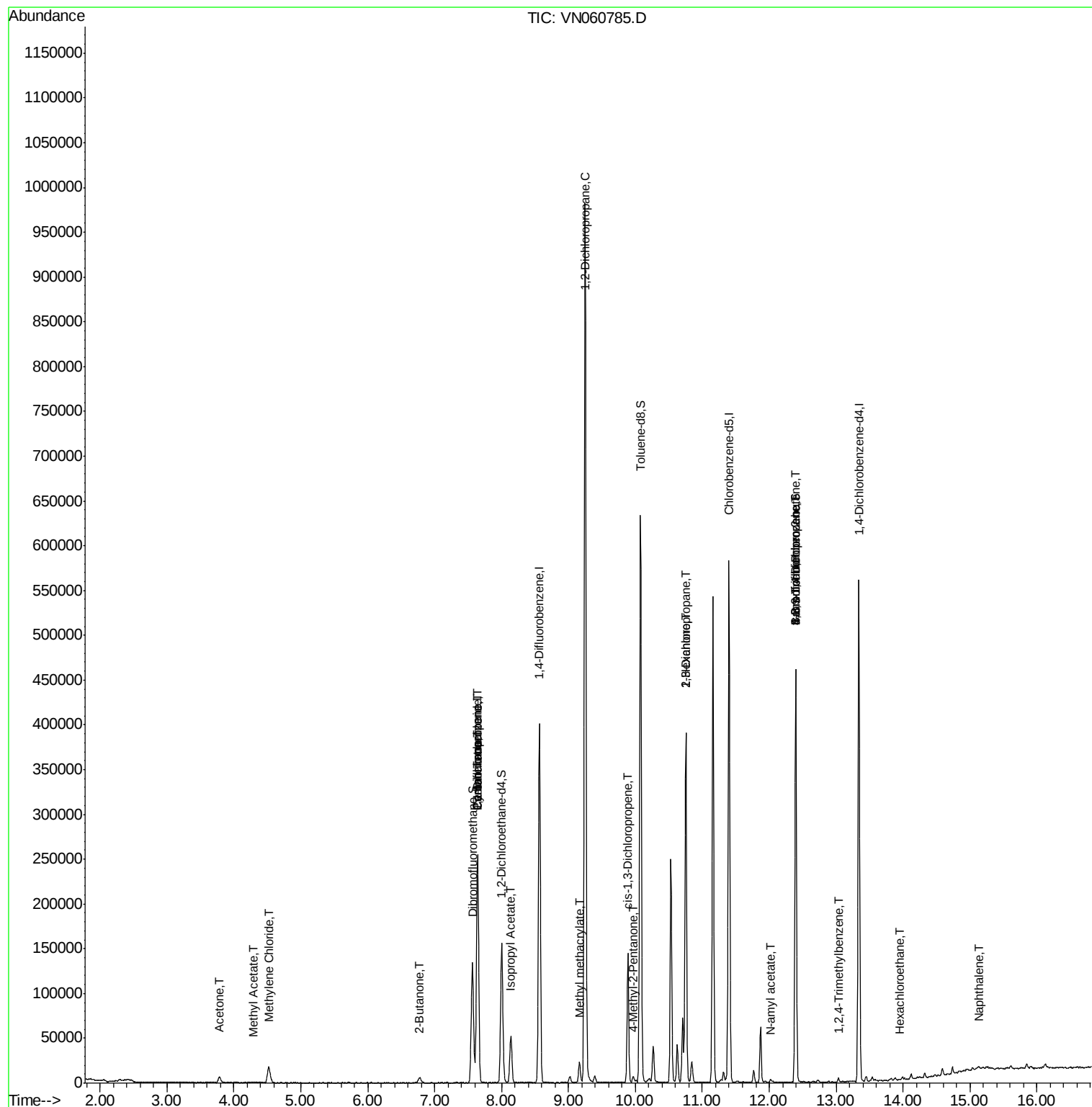
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 16) Acetone                    | 3.78  | 43   | 11473    | 11.260 | ug/l   | 96     |
| 18) Methyl Acetate             | 4.30  | 43   | 2018     | 0.704  | ug/l # | 57     |
| 20) Methylene Chloride         | 4.52  | 84   | 13492    | 5.383  | ug/l   | 93     |
| 25) 2-Butanone                 | 6.79  | 43   | 632      | 0.383  | ug/l # | 50     |
| 31) Cyclohexane                | 7.64  | 56   | 4447     | 0.960  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.64  | 75   | 16292    | 4.809  | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.64  | 117  | 20114    | 6.624  | ug/l # | 15     |
| 43) Isopropyl Acetate          | 8.14  | 43   | 62524    | 10.357 | ug/l # | 91     |
| 45) 1,2-Dichloropropane        | 9.25  | 63   | 1073     | 0.398  | ug/l # | 43     |
| 48) Methyl methacrylate        | 9.16  | 41   | 3661     | 1.362  | ug/l # | 15     |
| 51) 4-Methyl-2-Pentanone       | 9.97  | 43   | 5192     | 1.511  | ug/l   | 90     |
| 54) cis-1,3-Dichloropropene    | 9.89  | 75   | 25373    | 5.939  | ug/l # | 60     |
| 57) 1,3-Dichloropropane        | 10.75 | 76   | 3909     | 0.948  | ug/l # | 42     |
| 59) 2-Hexanone                 | 10.75 | 43   | 57210    | 23.118 | ug/l # | 52     |
| 71) Bromoform                  | 12.39 | 173  | 459      | 1.907  | ug/l # | 1      |
| 74) N-amyl acetate             | 12.02 | 43   | 3700     | 0.722  | ug/l # | 45     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 81126    | 25.437 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 81126    | 65.331 | ug/l # | 13     |
| 84) 1,2,4-Trimethylbenzene     | 13.03 | 105  | 3212     | 0.345  | ug/l   | 98     |
| 90) Hexachloroethane           | 13.94 | 117  | 416      | 0.303  | ug/l # | 8      |
| 95) Naphthalene                | 15.13 | 128  | 2615     | 0.314  | ug/l # | 89     |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_N  
ClientSampleId :

Quant Time: Apr 01 08:23:17 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N031820W.M  
Quant Title : SW846 8260  
QLast Update : Wed Mar 18 08:49:09 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060785.D

Acq: 31 Mar 2020 14:57

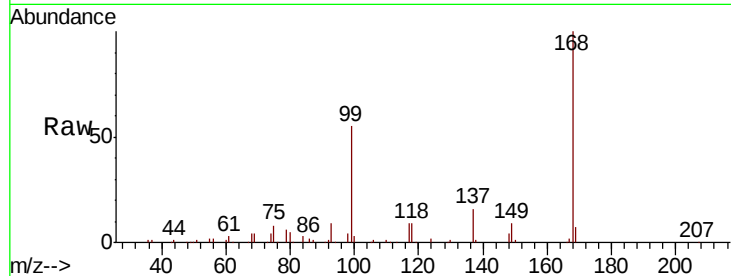
Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion:168 Resp: 209545

Ion Ratio Lower Upper

168 100

99 55.4 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

80000

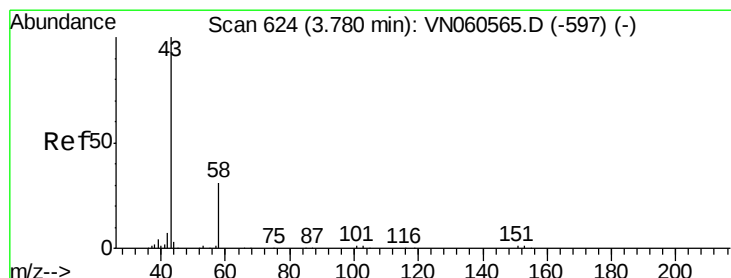
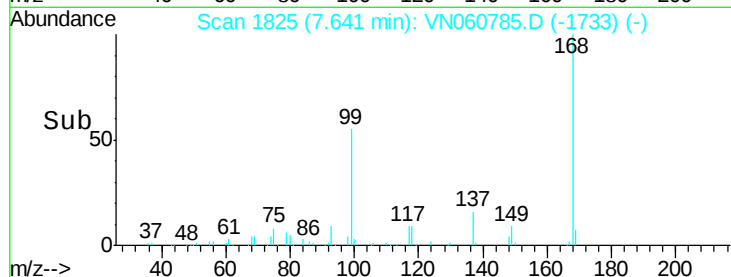
60000

40000

20000

0

Time-->



#16

Acetone

Concen: 11.260 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060785.D

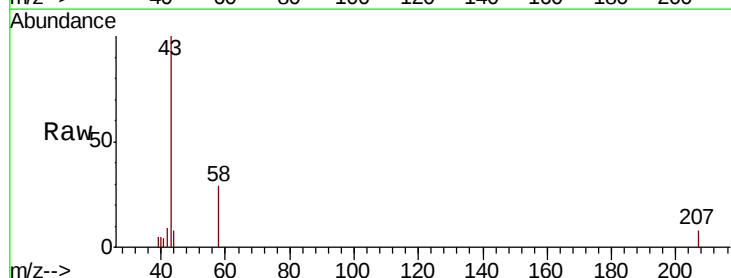
Acq: 31 Mar 2020 14:57

Tgt Ion: 43 Resp: 11473

Ion Ratio Lower Upper

43 100

58 29.0 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.78

4000

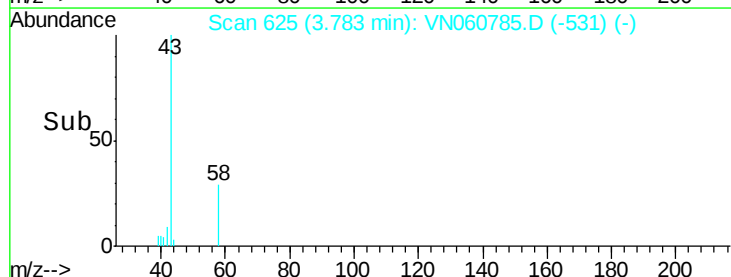
3000

2000

1000

0

Time-->

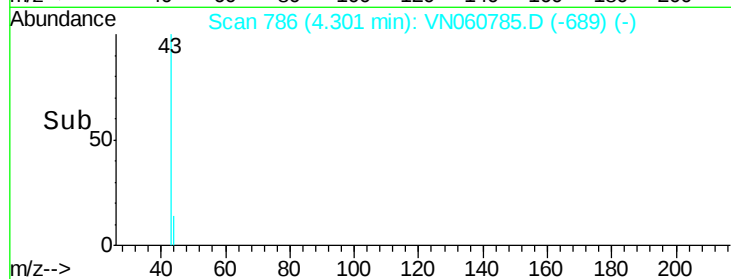
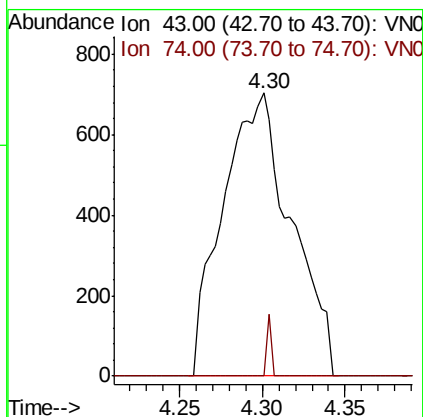
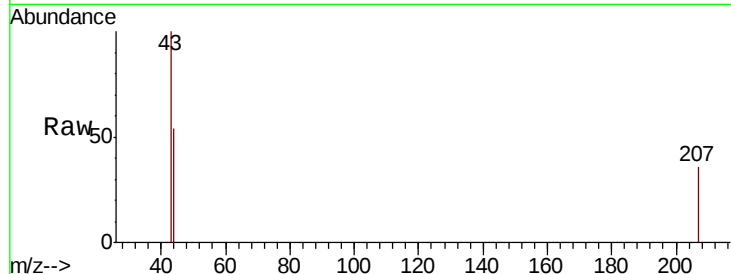




#18  
Methyl Acetate  
Concen: 0.704 ug/l  
RT: 4.30 min Scan# 786  
Delta R.T. 0.01 min  
Lab File: VN060785.D  
Acq: 31 Mar 2020 14:57

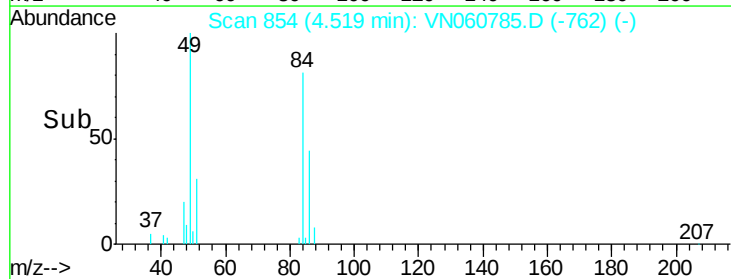
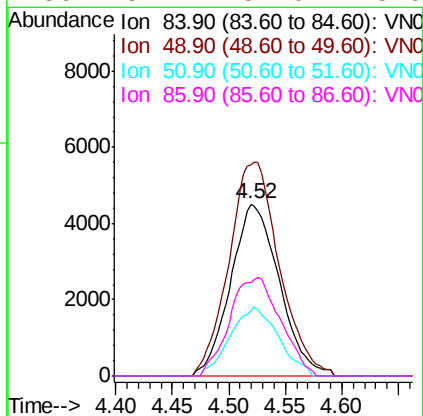
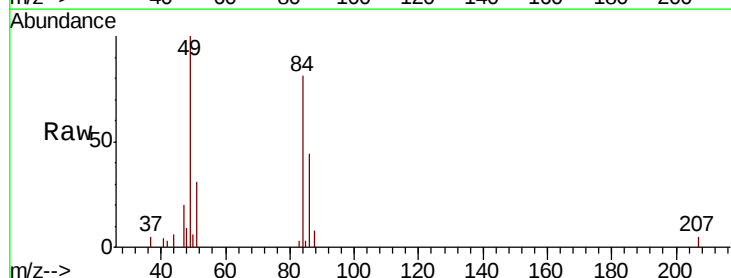
Instrument :  
MSVOA\_N  
ClientSampled :

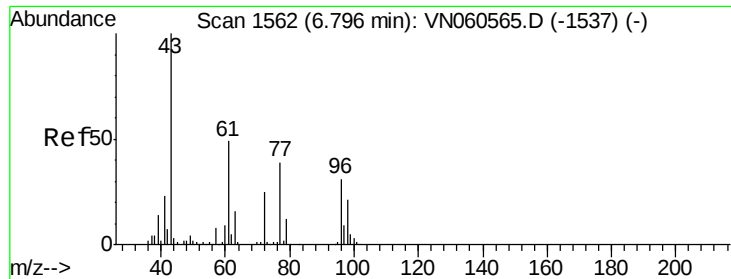
Tot Ion: 43 Resp: 2018  
Ion Ratio Lower Upper  
43 100  
74 1.5 17.5 26.3#



#20  
Methylene Chloride  
Concen: 5.383 ug/l  
RT: 4.52 min Scan# 854  
Delta R.T. -0.00 min  
Lab File: VN060785.D  
Acq: 31 Mar 2020 14:57

Tgt Ion: 84 Resp: 13492  
Ion Ratio Lower Upper  
84 100  
49 122.8 103.3 154.9  
51 38.1 31.6 47.4  
86 54.4 52.0 78.0





#25

2-Butanone

Concen: 0.383 ug/l

RT: 6.79 min Scan# 1559

Delta R.T. -0.01 min

Lab File: VN060785.D

Acq: 31 Mar 2020 14:57

Instrument :

MSVOA\_N

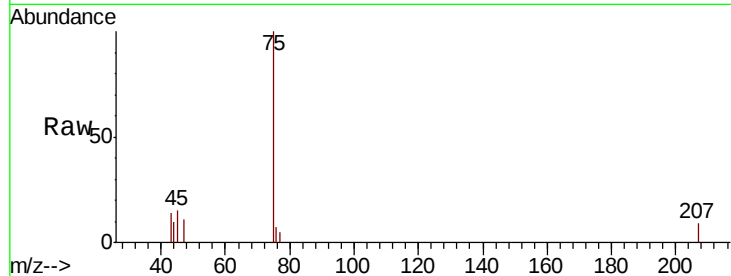
ClientSampleId :

Tot Ion: 43 Resp: 632

Ion Ratio Lower Upper

43 100

72 0.0 20.4 30.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.79

450

400

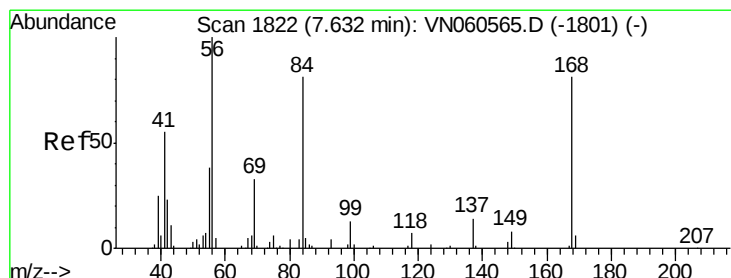
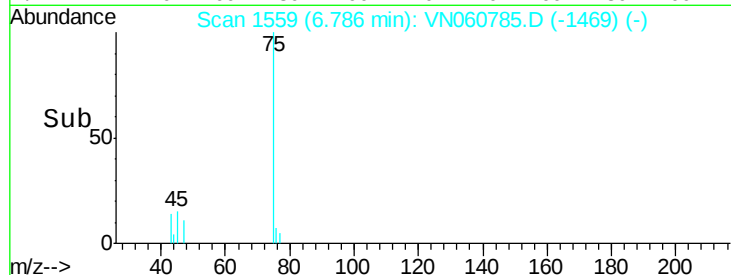
300

200

100

0

Time--> 6.74 6.76 6.78 6.80



#31

Cyclohexane

Concen: 0.960 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.01 min

Lab File: VN060785.D

Acq: 31 Mar 2020 14:57

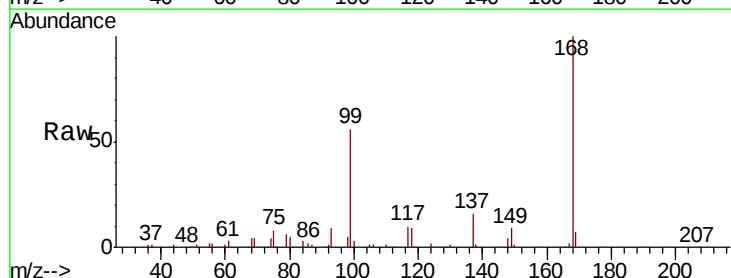
Tgt Ion: 56 Resp: 4447

Ion Ratio Lower Upper

56 100

69 167.2 26.6 40.0#

84 119.0 64.3 96.5#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

4000

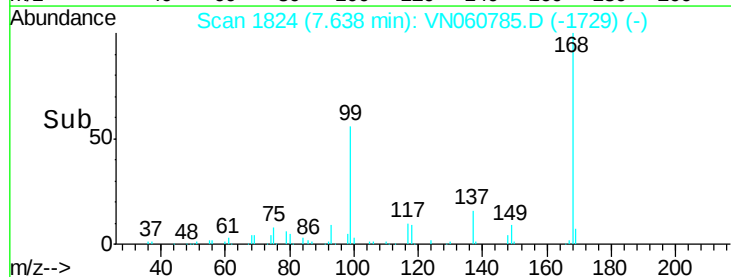
3000

2000

1000

0

Time--> 7.60 7.65 7.70





#33

1,2-Dichloroethane-d4

Concen: 47.049 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN060785.D

Acq: 31 Mar 2020 14:57

Instrument :

MSVOA\_N

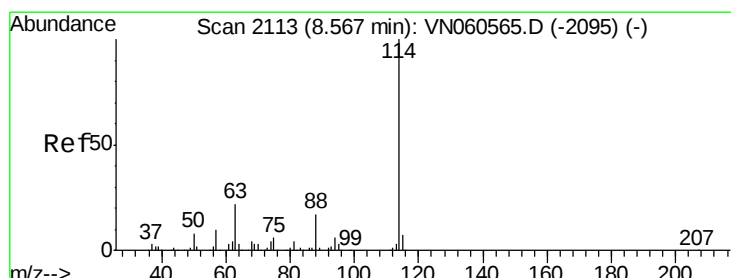
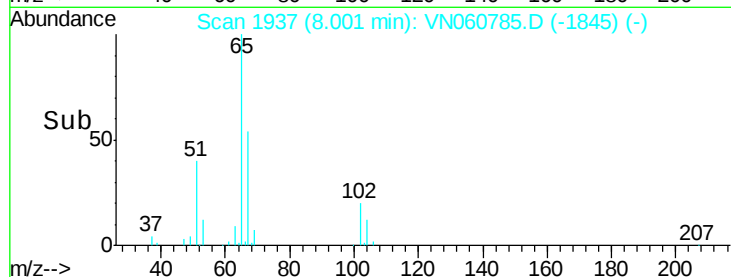
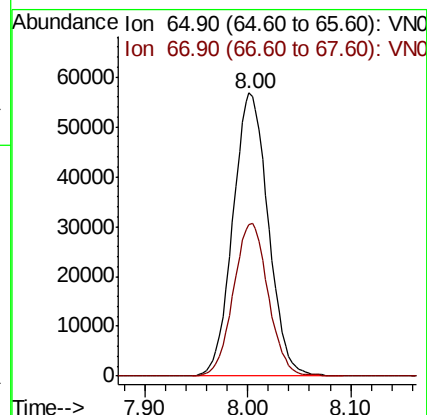
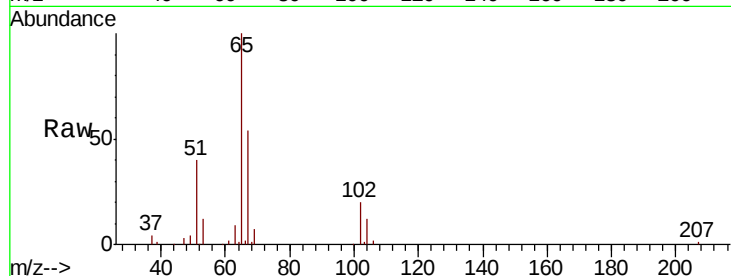
ClientSampleId :

Tot Ion: 65 Resp: 135341

Ion Ratio Lower Upper

65 100

67 53.2 0.0 107.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.56 min Scan# 2112

Delta R.T. -0.00 min

Lab File: VN060785.D

Acq: 31 Mar 2020 14:57

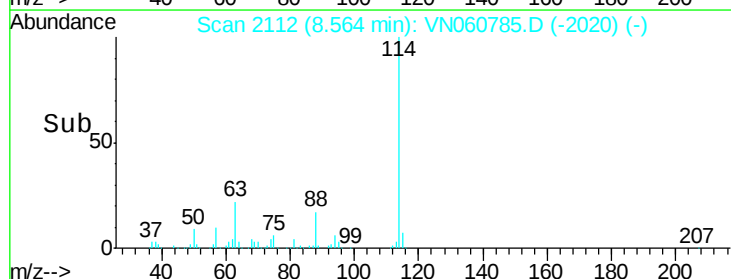
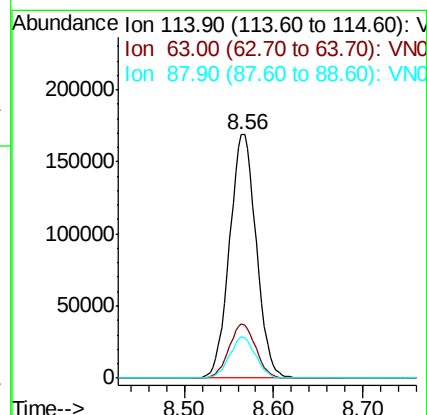
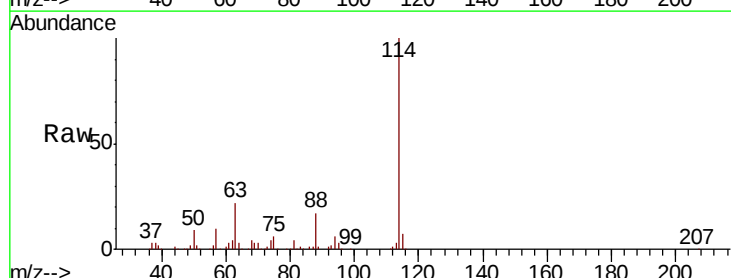
Tgt Ion: 114 Resp: 349867

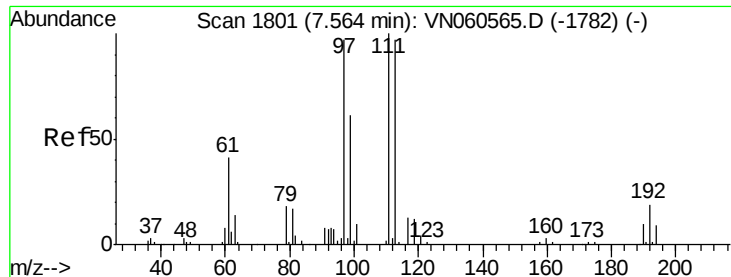
Ion Ratio Lower Upper

114 100

63 22.1 0.0 43.8

88 16.8 0.0 33.0

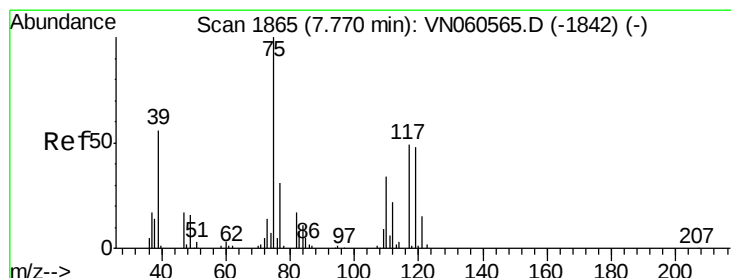
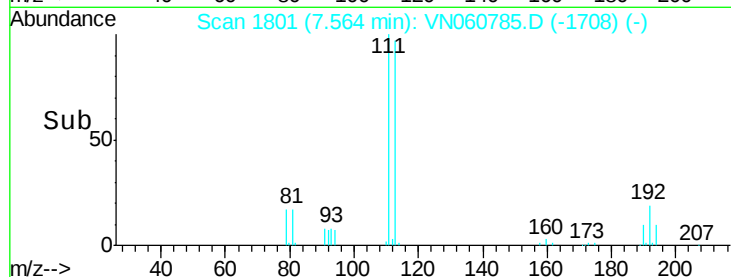
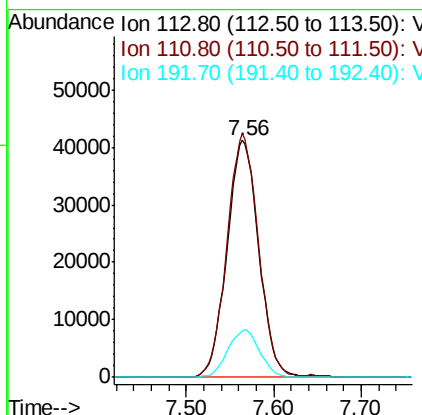
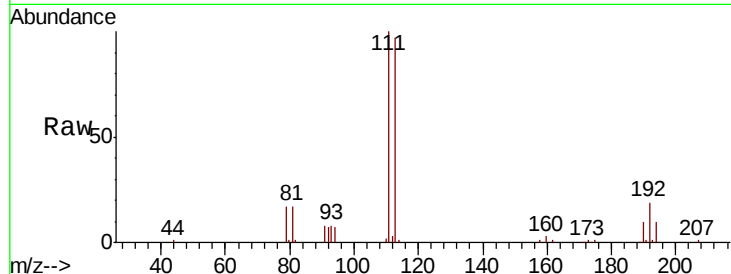




#35  
 Dibromofluoromethane  
 Concen: 48.970 ug/l  
 RT: 7.56 min Scan# 1801  
 Delta R.T. -0.00 min  
 Lab File: VN060785.D  
 Acq: 31 Mar 2020 14:57

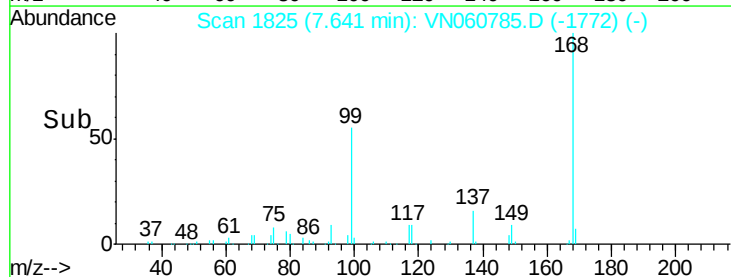
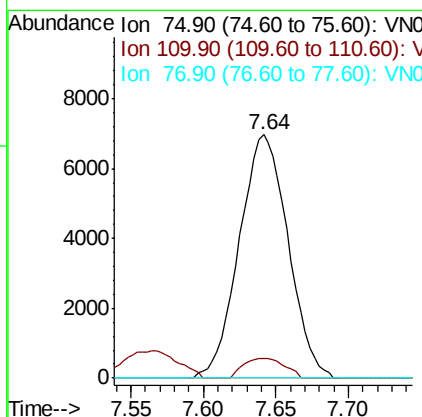
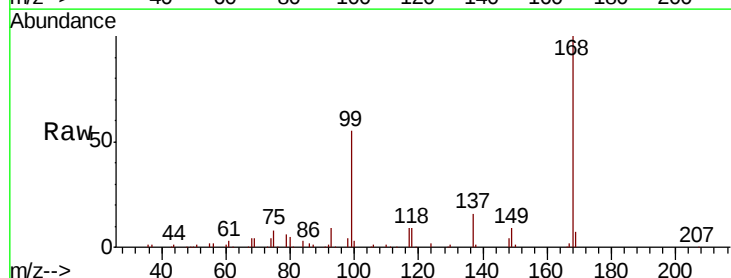
Instrument :  
 MSVOA\_N  
 ClientSampled :

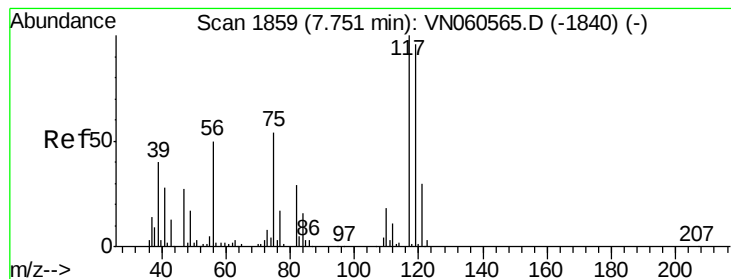
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.2 | 82.9  | 124.3 |
| 192     | 20.1  | 15.8  | 23.8  |



#36  
 1,1-Dichloropropene  
 Concen: 4.809 ug/l  
 RT: 7.64 min Scan# 1825  
 Delta R.T. -0.13 min  
 Lab File: VN060785.D  
 Acq: 31 Mar 2020 14:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 6.9   | 16.9  | 50.6# |
| 77      | 0.0   | 24.6  | 36.8# |





#38

Carbon Tetrachloride

Concen: 6.624 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060785.D

Acq: 31 Mar 2020 14:57

Instrument :

MSVOA\_N

ClientSampled :

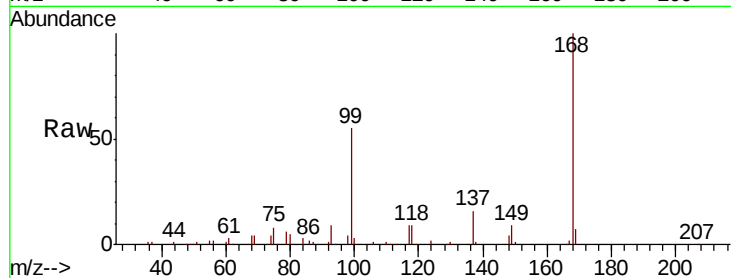
Tot Ion:117 Resp: 20114

Ion Ratio Lower Upper

117 100

119 3.7 76.2 114.2#

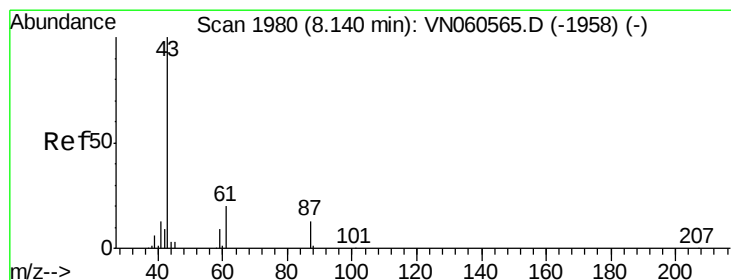
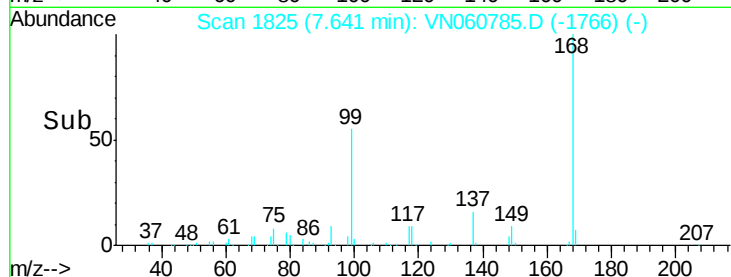
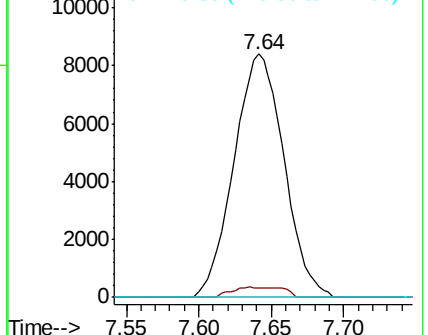
121 0.0 23.7 35.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 10.357 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060785.D

Acq: 31 Mar 2020 14:57

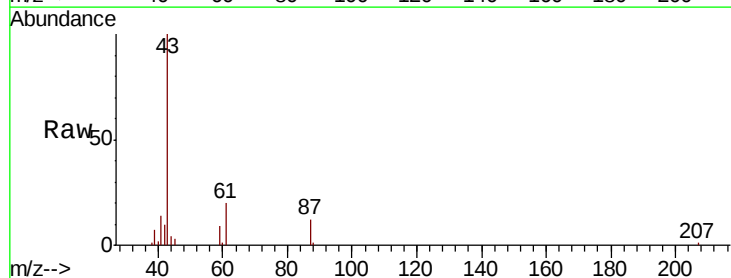
Tgt Ion: 43 Resp: 62524

Ion Ratio Lower Upper

43 100

61 19.5 20.7 31.1#

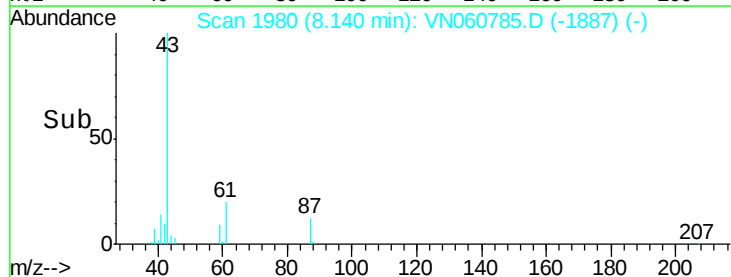
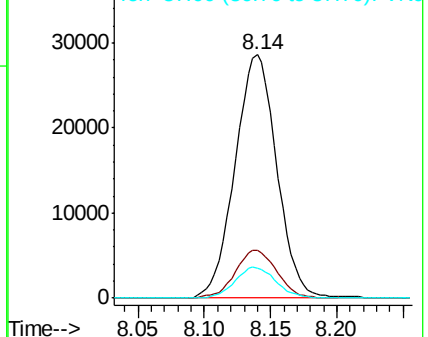
87 12.4 9.8 14.8

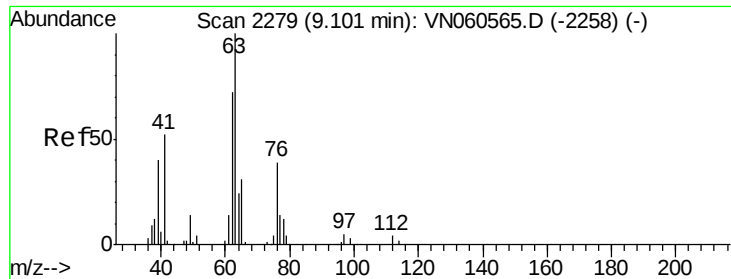


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.398 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060785.D

Acq: 31 Mar 2020 14:57

Instrument :

MSVOA\_N

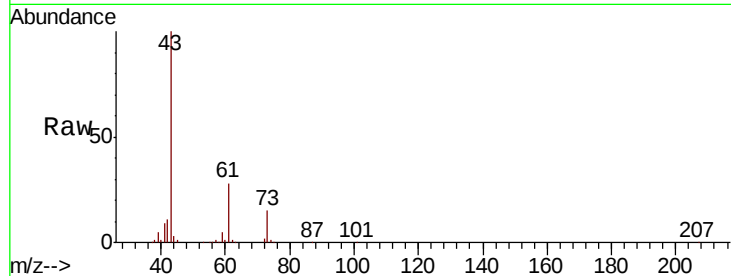
ClientSampleId :

Tot Ion: 63 Resp: 1073

Ion Ratio Lower Upper

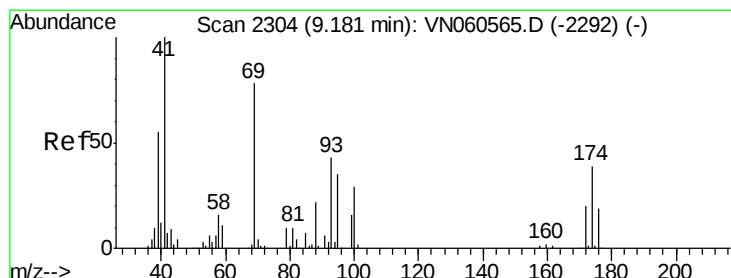
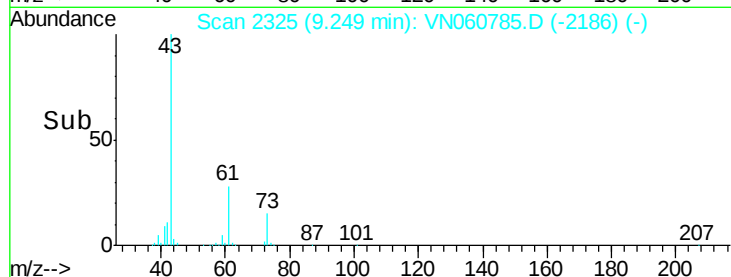
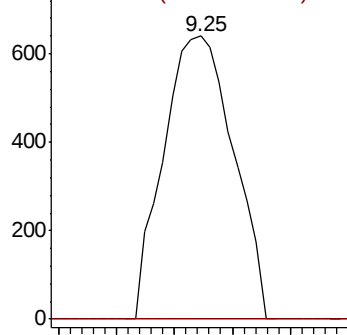
63 100

65 0.0 25.4 38.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 1.362 ug/l

RT: 9.16 min Scan# 2297

Delta R.T. -0.02 min

Lab File: VN060785.D

Acq: 31 Mar 2020 14:57

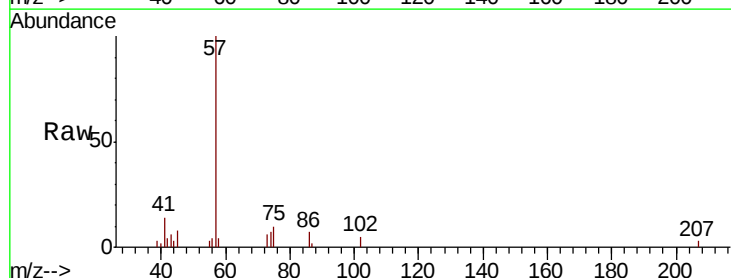
Tgt Ion: 41 Resp: 3661

Ion Ratio Lower Upper

41 100

69 0.0 65.4 98.0#

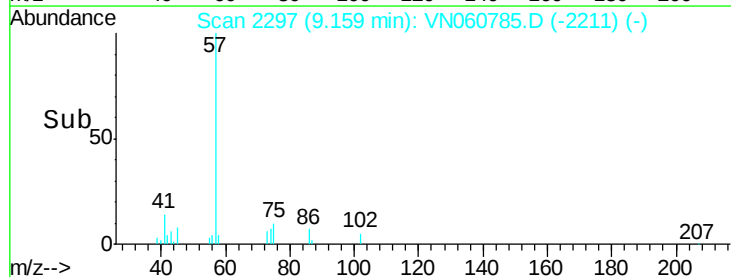
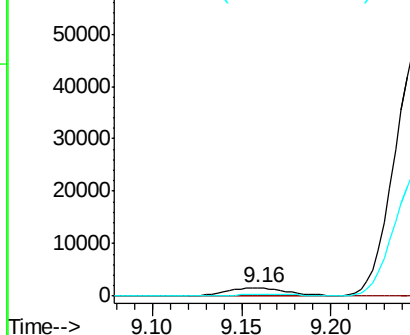
39 0.0 44.0 66.0#

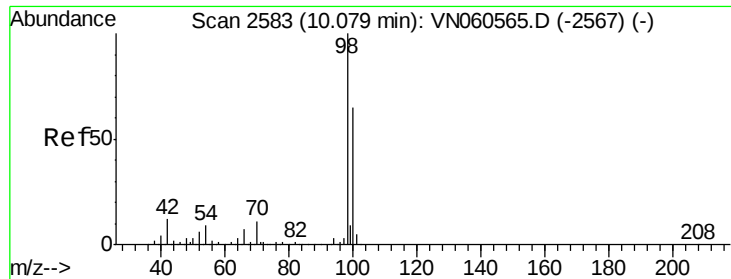


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

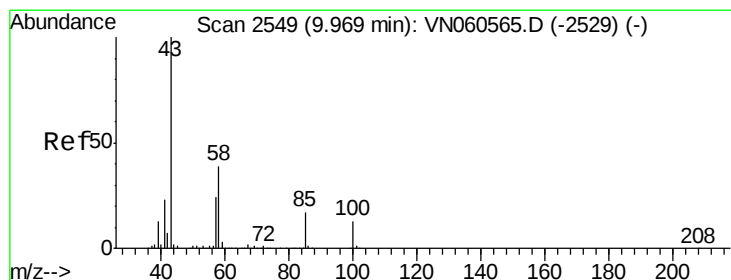
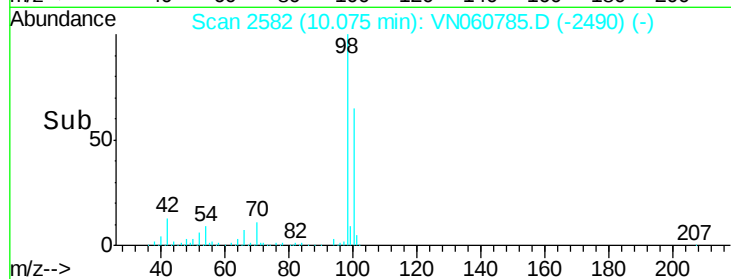
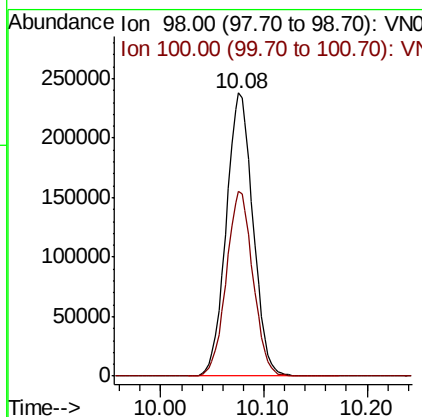
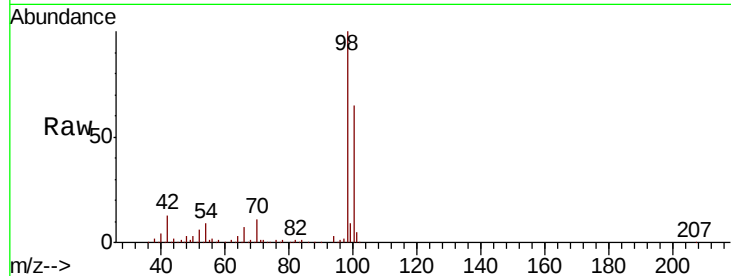




#50  
Toluene-d8  
Concen: 49.874 ug/l  
RT: 10.08 min Scan# 2582  
Delta R.T. -0.00 min  
Lab File: VN060785.D  
Acq: 31 Mar 2020 14:57

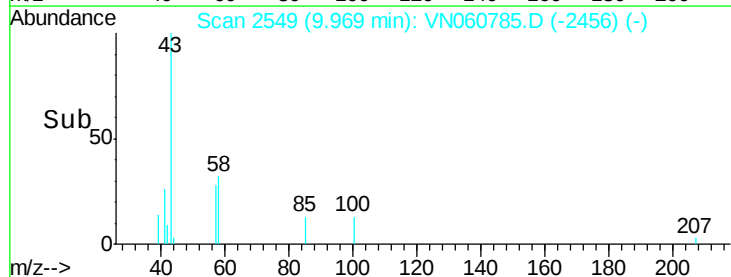
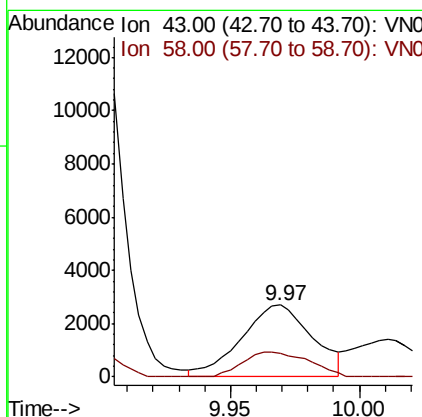
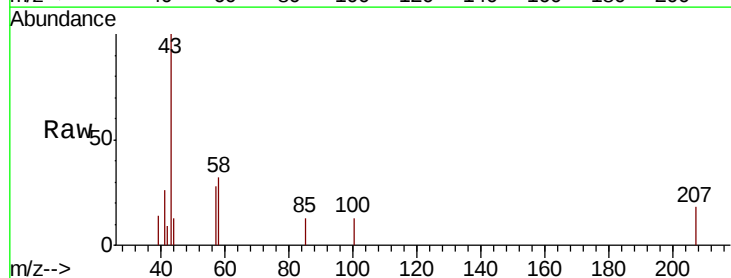
Instrument :  
MSVOA\_N  
ClientSampled :

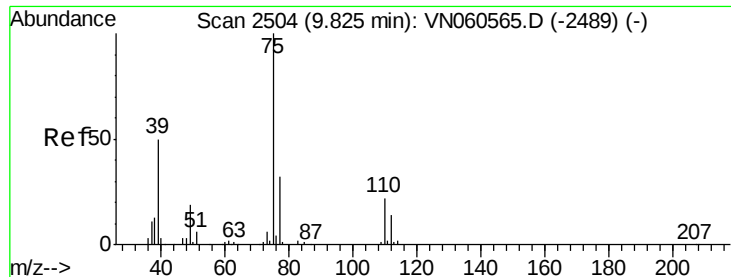
Tot Ion: 98 Resp: 430964  
Ion Ratio Lower Upper  
98 100  
100 65.0 51.8 77.8



#51  
4-Methyl-2-Pentanone  
Concen: 1.511 ug/l  
RT: 9.97 min Scan# 2549  
Delta R.T. -0.00 min  
Lab File: VN060785.D  
Acq: 31 Mar 2020 14:57

Tgt Ion: 43 Resp: 5192  
Ion Ratio Lower Upper  
43 100  
58 32.2 30.8 46.2





#54

cis-1,3-Dichloropropene

Concen: 5.939 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060785.D

Acq: 31 Mar 2020 14:57

Instrument :

MSVOA\_N

ClientSampled :

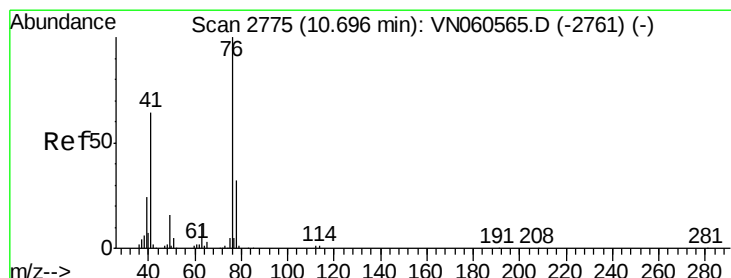
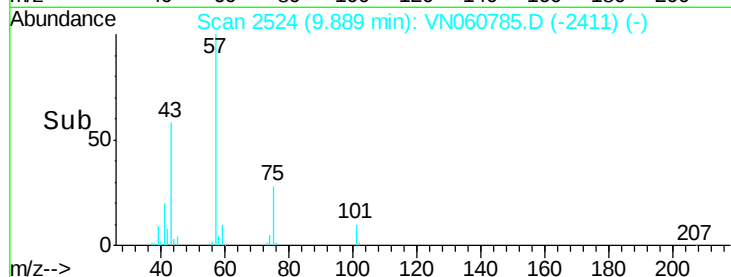
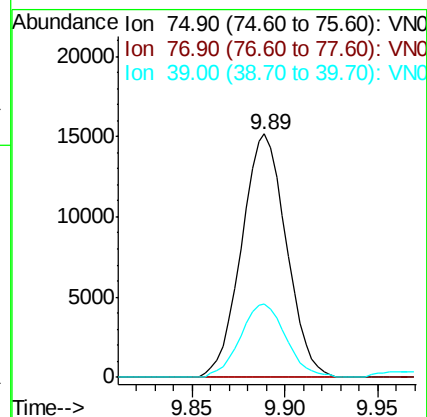
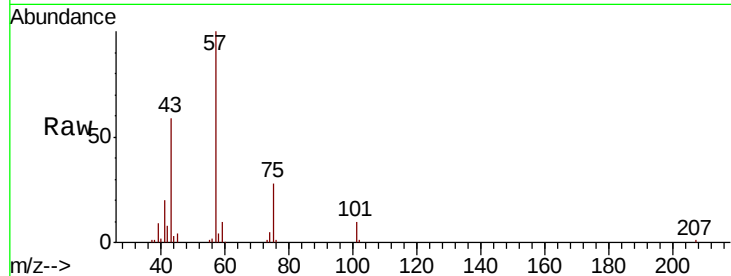
Tot Ion: 75 Resp: 25373

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

39 30.1 40.2 60.4#



#57

1,3-Dichloropropane

Concen: 0.948 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.05 min

Lab File: VN060785.D

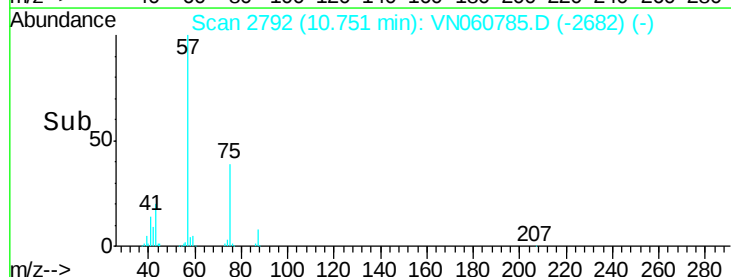
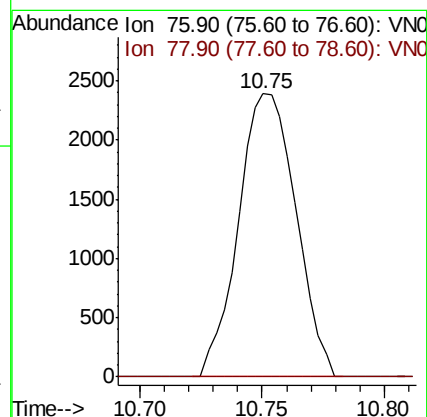
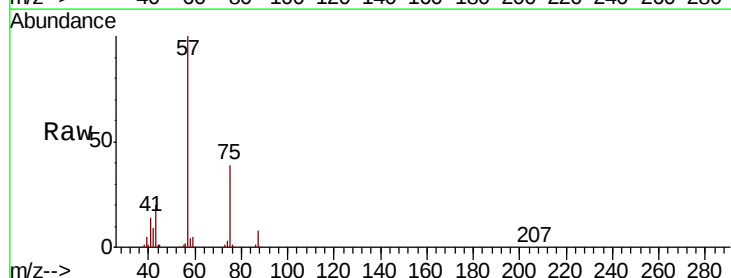
Acq: 31 Mar 2020 14:57

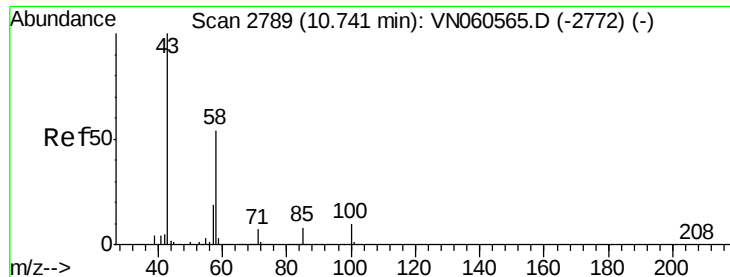
Tgt Ion: 76 Resp: 3909

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#

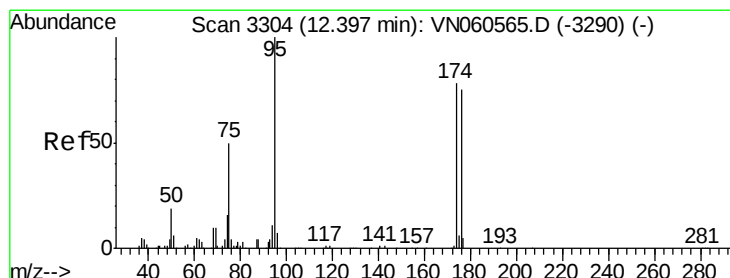
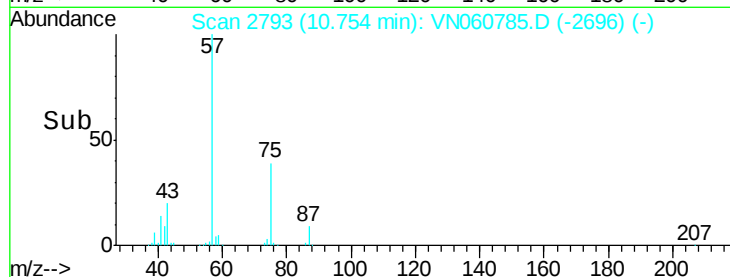
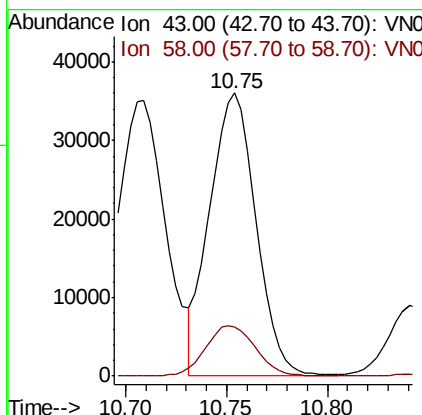
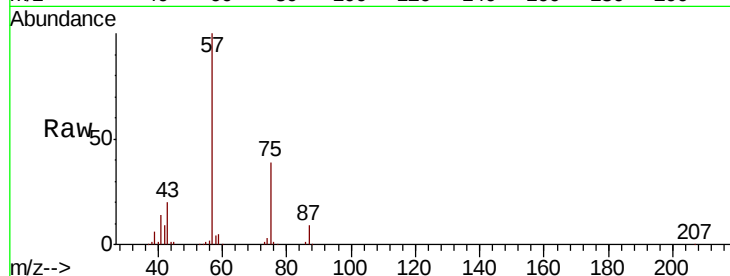




#59  
2-Hexanone  
Concen: 23.118 ug/l  
RT: 10.75 min Scan# 2793  
Delta R.T. 0.01 min  
Lab File: VN060785.D  
Acq: 31 Mar 2020 14:57

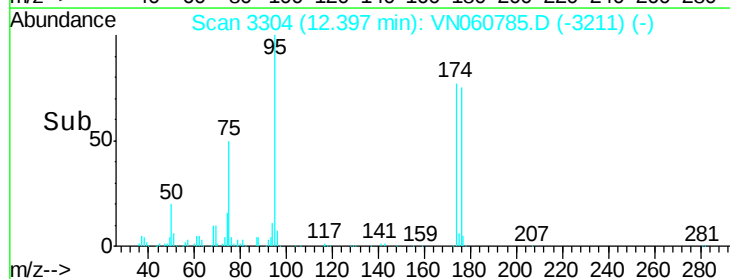
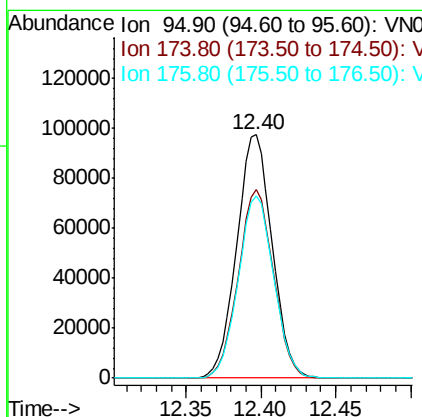
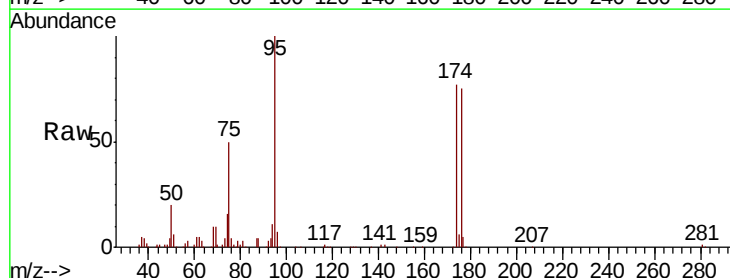
Instrument :  
MSVOA\_N  
ClientSampled :

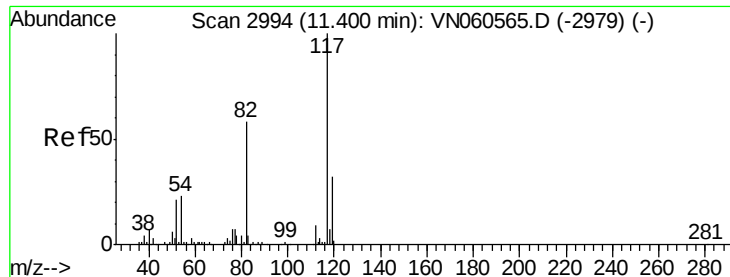
Tot Ion: 43 Resp: 57210  
Ion Ratio Lower Upper  
43 100  
58 19.3 26.7 80.1#



#62  
4-Bromofluorobenzene  
Concen: 50.875 ug/l  
RT: 12.40 min Scan# 3304  
Delta R.T. -0.00 min  
Lab File: VN060785.D  
Acq: 31 Mar 2020 14:57

Tgt Ion: 95 Resp: 161115  
Ion Ratio Lower Upper  
95 100  
174 76.9 0.0 157.6  
176 74.9 0.0 150.6

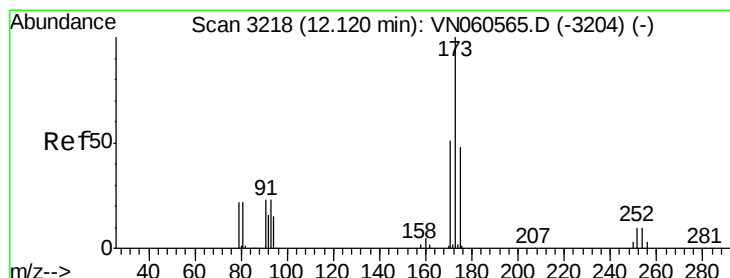
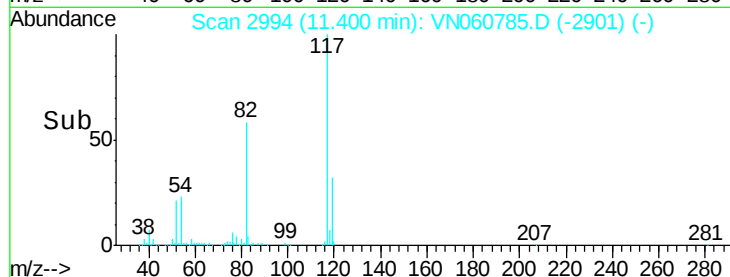
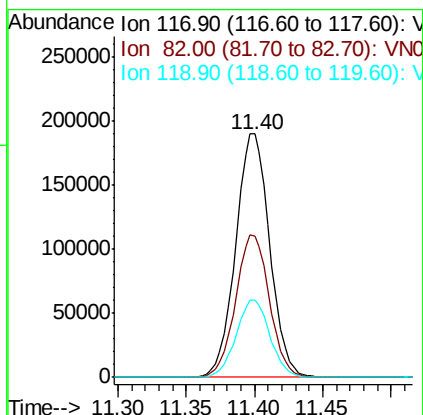
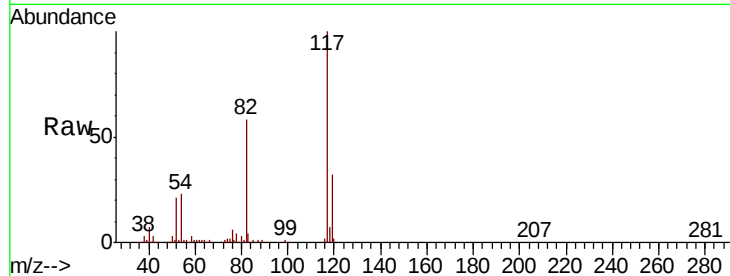




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.40 min Scan# 2994  
Delta R.T. -0.00 min  
Lab File: VN060785.D  
Acq: 31 Mar 2020 14:57

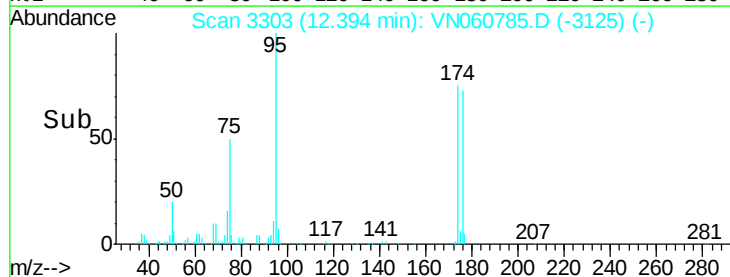
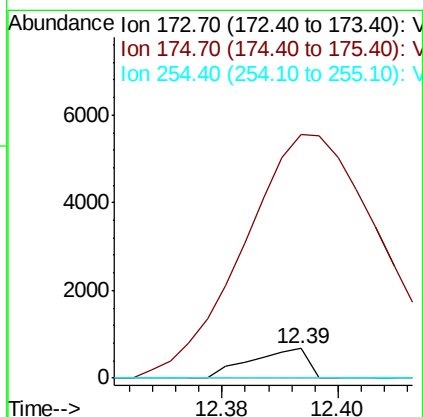
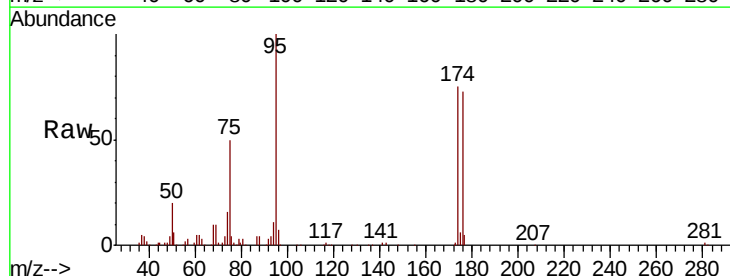
Instrument :  
MSVOA\_N  
ClientSampleId :

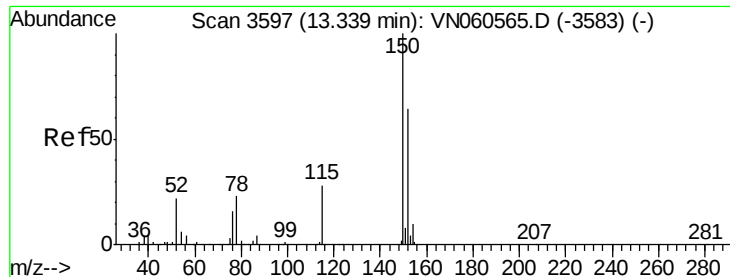
Tot Ion:117 Resp: 328508  
Ion Ratio Lower Upper  
117 100  
82 58.2 46.7 70.1  
119 31.9 25.5 38.3



#71  
Bromoform  
Concen: 1.907 ug/l  
RT: 12.39 min Scan# 3303  
Delta R.T. 0.27 min  
Lab File: VN060785.D  
Acq: 31 Mar 2020 14:57

Tgt Ion:173 Resp: 459  
Ion Ratio Lower Upper  
173 100  
175 1720.5 24.1 72.4#  
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN060785.D

Acq: 31 Mar 2020 14:57

Instrument :

MSVOA\_N

ClientSampleId :

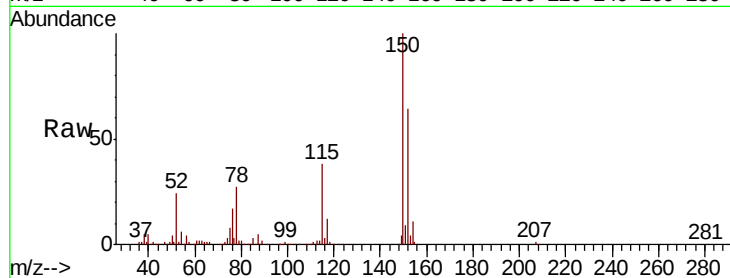
Tot Ion:152 Resp: 147801

Ion Ratio Lower Upper

152 100

115 60.0 30.2 90.6

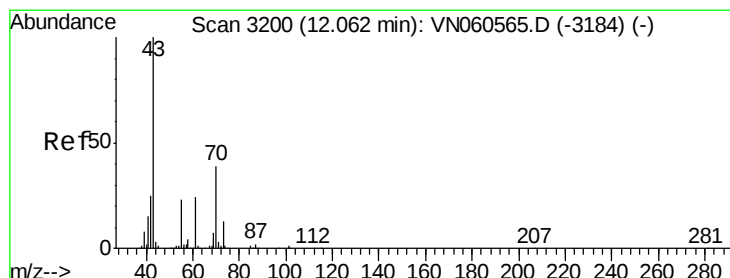
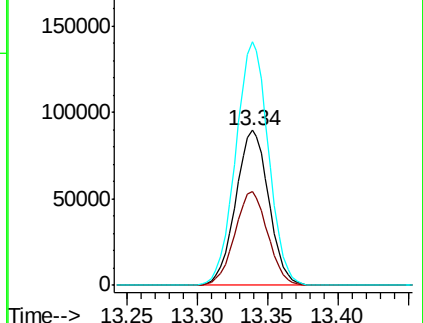
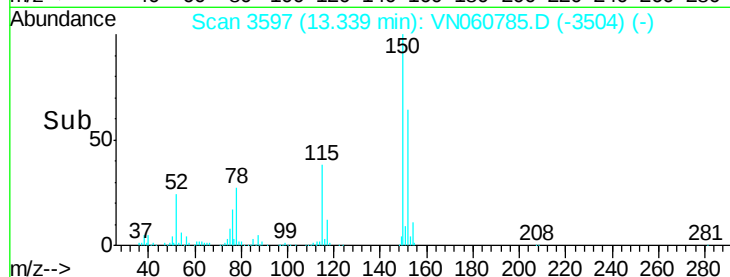
150 155.7 0.0 350.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.722 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060785.D

Acq: 31 Mar 2020 14:57

Tgt Ion: 43 Resp: 3700

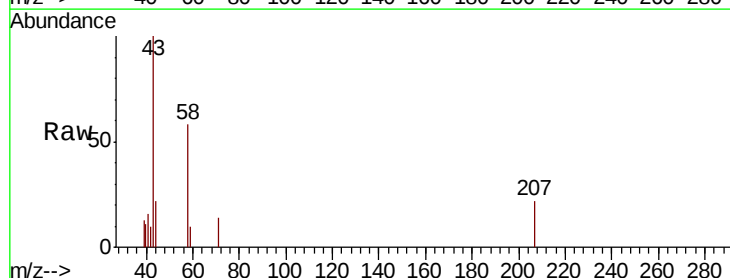
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

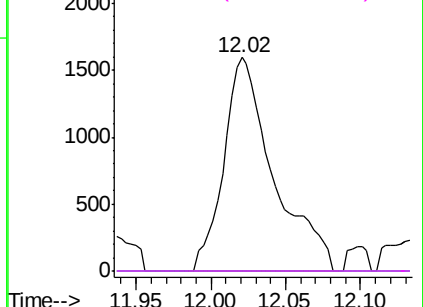
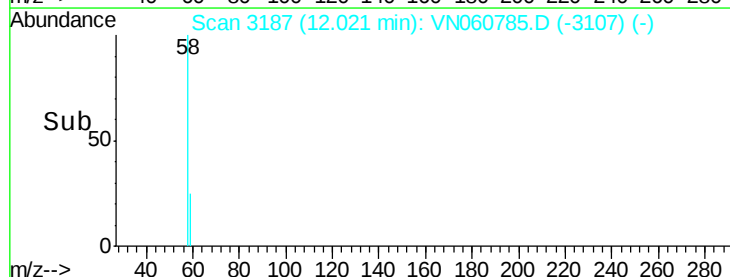


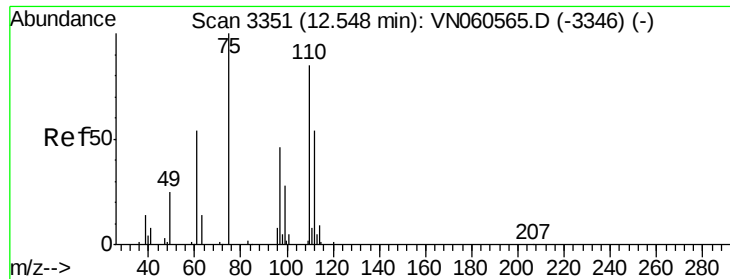
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

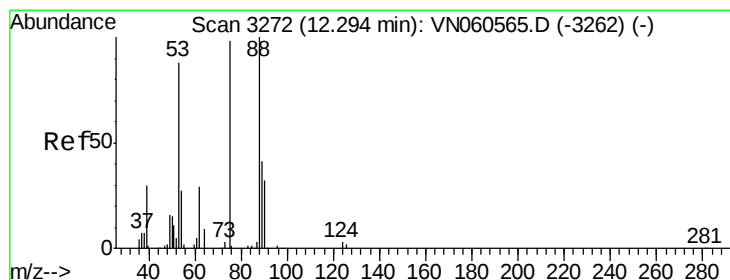
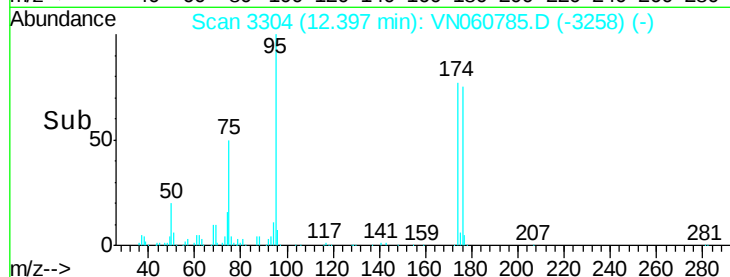
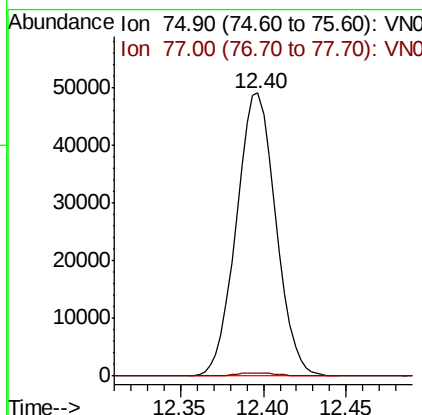
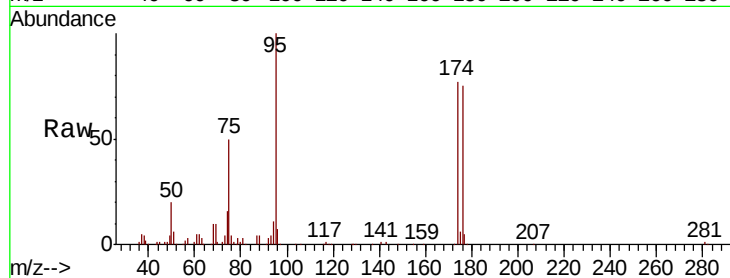




#76  
 1,2,3-Trichloropropane  
 Concen: 25.437 ug/l  
 RT: 12.40 min Scan# 3304  
 Delta R.T. -0.15 min  
 Lab File: VN060785.D  
 Acq: 31 Mar 2020 14:57

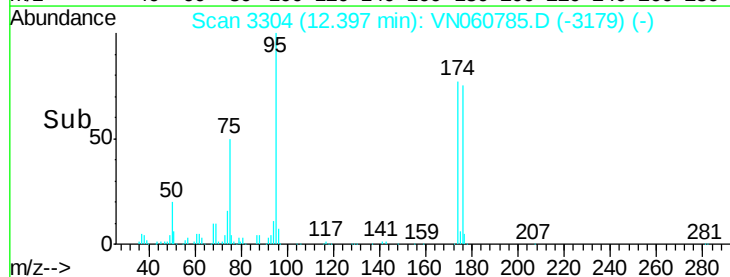
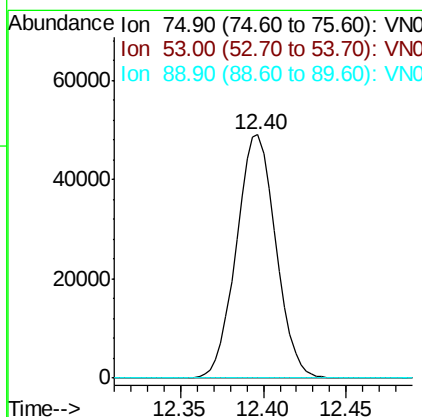
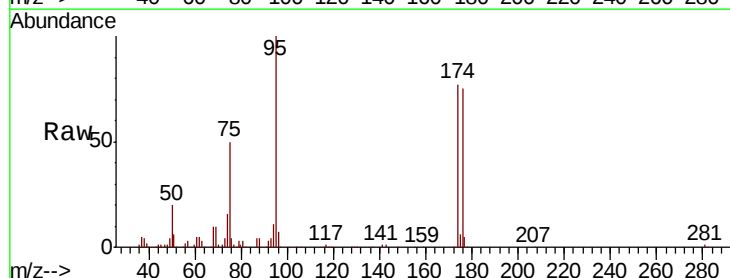
Instrument :  
 MSVOA\_N  
 ClientSampled :

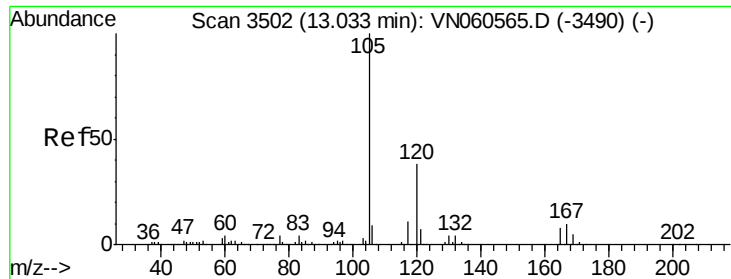
Tot Ion: 75 Resp: 81126  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 65.331 ug/l  
 RT: 12.40 min Scan# 3304  
 Delta R.T. 0.10 min  
 Lab File: VN060785.D  
 Acq: 31 Mar 2020 14:57

Tgt Ion: 75 Resp: 81126  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 73.0 109.4#  
 89 0.0 34.8 52.2#

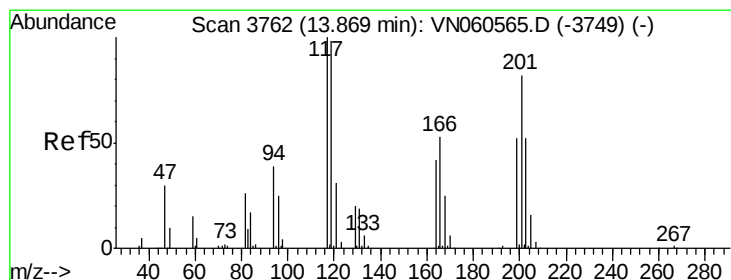
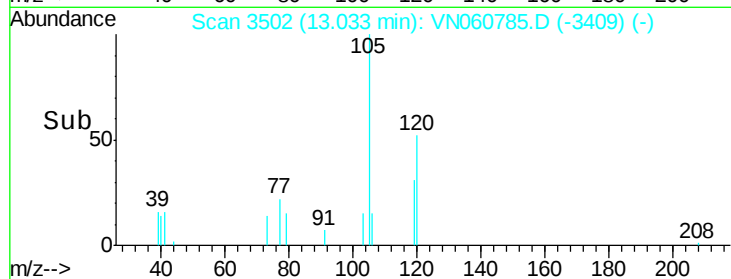
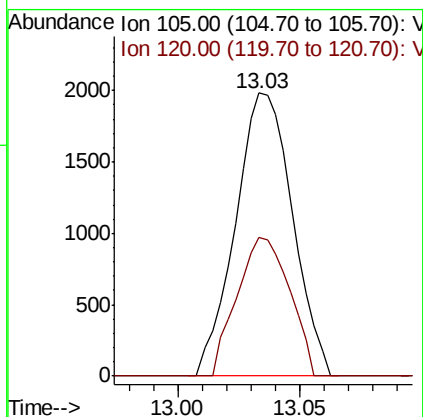
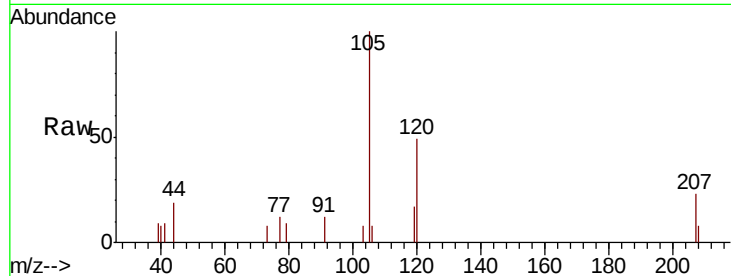




#84  
 1,2,4-Trimethylbenzene  
 Concen: 0.345 ug/l  
 RT: 13.03 min Scan# 3502  
 Delta R.T. -0.00 min  
 Lab File: VN060785.D  
 Acq: 31 Mar 2020 14:57

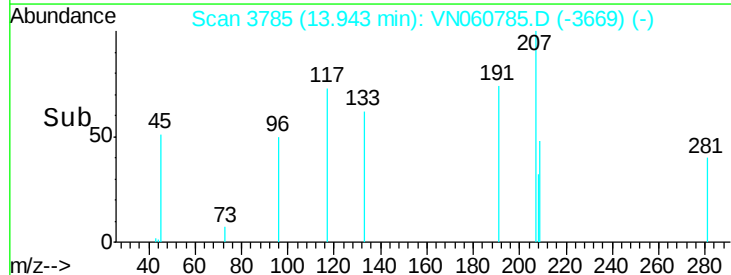
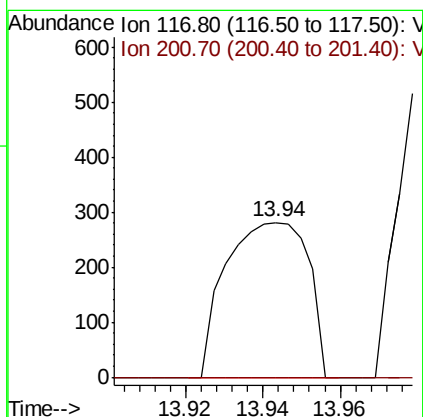
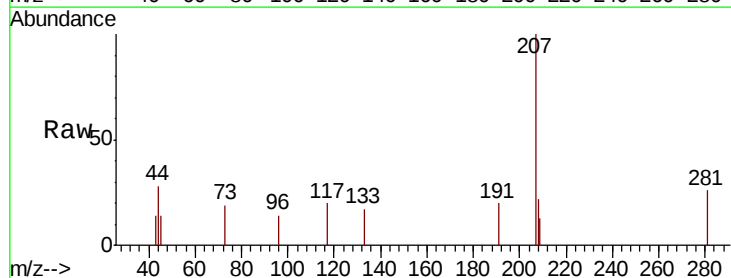
Instrument :  
 MSVOA\_N  
 ClientSampled :

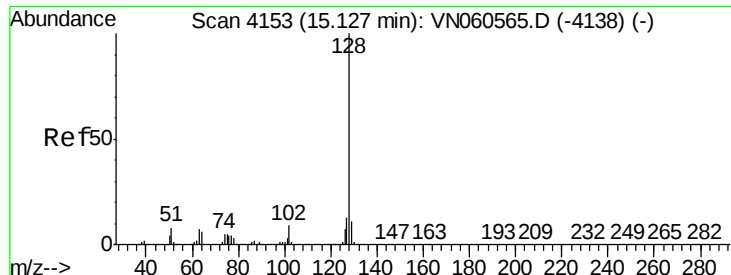
Tot Ion:105 Resp: 3212  
 Ion Ratio Lower Upper  
 105 100  
 120 45.4 22.1 66.5



#90  
 Hexachloroethane  
 Concen: 0.303 ug/l  
 RT: 13.94 min Scan# 3785  
 Delta R.T. 0.07 min  
 Lab File: VN060785.D  
 Acq: 31 Mar 2020 14:57

Tgt Ion:117 Resp: 416  
 Ion Ratio Lower Upper  
 117 100  
 201 0.0 40.8 122.5#





#95

Naphthalene

Concen: 0.314 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

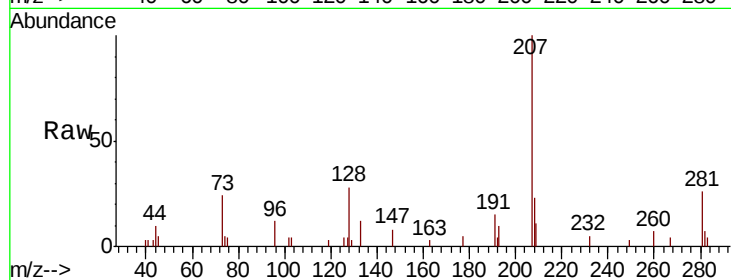
Lab File: VN060785.D

Acq: 31 Mar 2020 14:57

Instrument :

MSVOA\_N

ClientSampleId :



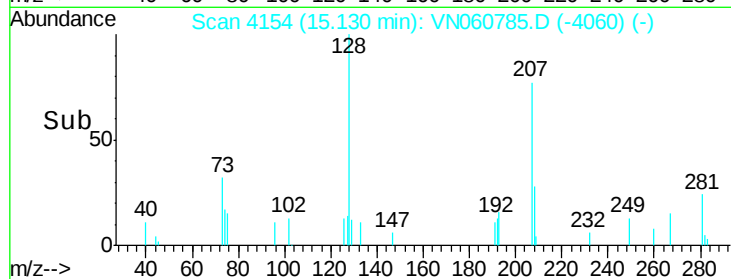
Tot Ion:128 Resp: 2615

Ion Ratio Lower Upper

128 100

127 10.1 10.2 15.2#

129 5.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

